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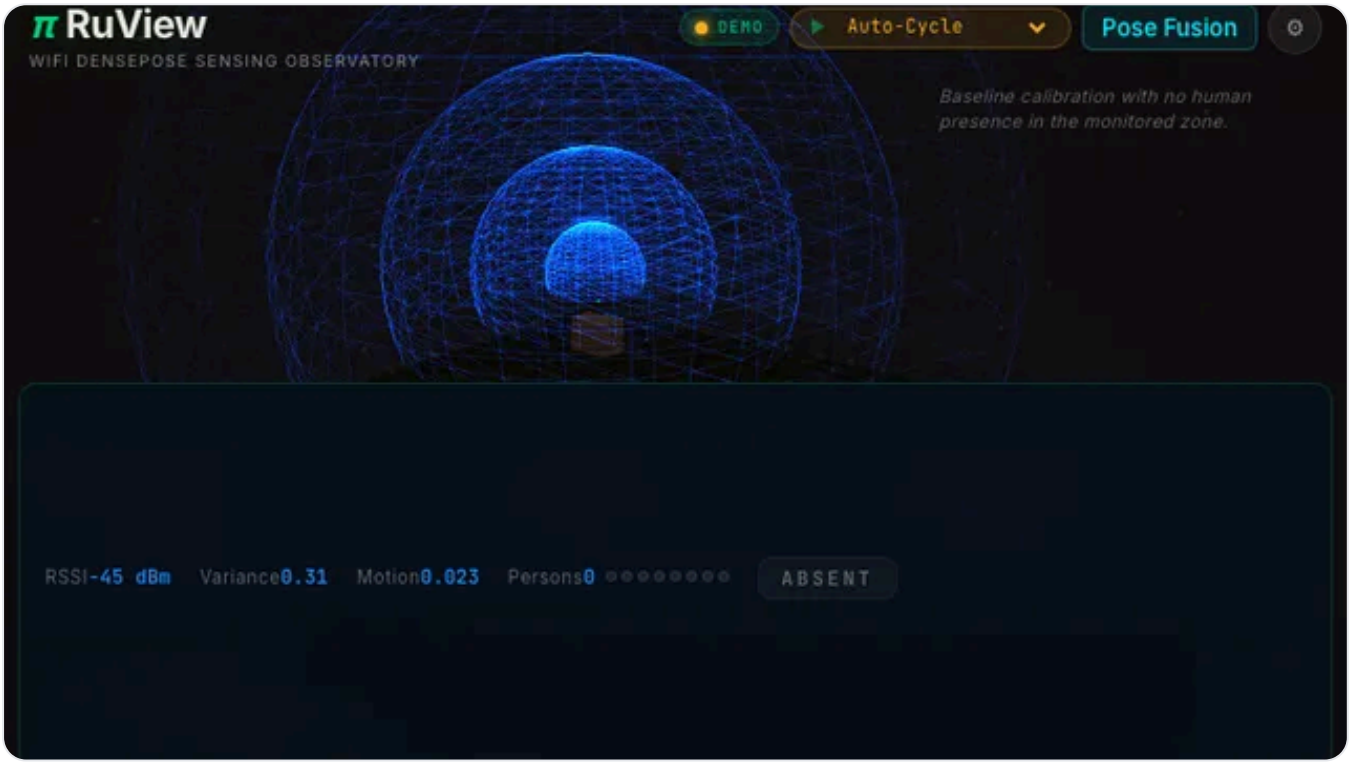
RuView

An open WiFi sensing demo for pose, vital signs, and presence monitoring.



About

RuView is a WiFi human pose estimation demo that visualizes DensePose-style sensing, vital signs, and presence detection in real time. It presents a live observatory view for exploring how WiFi signal patterns can be turned into motion, heart-rate, respiration, and multi-person scene data. The interface is built around an auto-cycling set of scenarios such as empty room monitoring, fall detection, sleep monitoring, intrusion detection, gesture control, and search and rescue. It also exposes rendering controls, camera options, and live data source settings so you can inspect the demo from multiple angles.

RuView is a WiFi human pose estimation demo that turns wireless signal changes into a visual observatory for sensing people and activity in a room. The app frames itself as a DensePose sensing observatory and combines pose fusion, vital-sign monitoring, and presence detection in one browser-based interface.

The demo is organized as a scenario viewer rather than a traditional dashboard. You can watch the room through modes like empty-room breathing, multi-person tracking, fall detection, sleep monitoring, elder-care gait analysis, fitness tracking, intrusion detection, security patrol, crowd occupancy, gesture control, and search and rescue. RuView also shows live readouts for heart rate, respiration, confidence, RSSI, variance, motion, number of persons, and presence state.

Because this is a WiFi human pose estimation demo, the main value is explanation and visualization. It is useful for understanding how sensing concepts map to a scene, not for replacing a clinical monitor or a production security system.

Key features

RuView focuses on a small set of tightly related sensing and visualization tools:

- **Scenario auto-cycle:** The demo can rotate through predefined scenes every 30 seconds.
- **Pose and presence view:** It highlights human pose estimation, presence detection, and person count in the same display.
- **Vital-sign indicators:** Heart rate, respiration rate, confidence, RSSI, variance, and motion are surfaced together.
- **Multi-person support:** One of the showcased scenarios is crowd occupancy for up to 4 people.
- **Gesture and rescue scenarios:** The app includes gesture control and search-and-rescue modes that suggest broader WiFi sensing use cases.
- **Rendering controls:** You can adjust bloom, exposure, vignette, grain, chromatic aberration, bone thickness, joint size, glow, particles, wireframe color, aura opacity, signal field, WiFi waves, room brightness, floor reflection, and FOV.
- **Scene controls:** The interface includes orbit mode, FPS display, settings, pause, reset camera, reset to defaults, and export settings.

- **Data source options:** The site exposes Demo Generator and Live WebSocket as data-source modes, plus a WS URL field for connecting a live feed.

This WiFi human pose estimation demo is especially notable because it bundles sensing concepts with a visual lab-like UI, making the underlying data easier to inspect.

How to use it

1. Open the demo in a browser and wait for the observatory view to load.
2. Watch the current scenario label and the live status readouts for persons, presence, and vital-sign fields.
3. Use the keyboard shortcuts shown in the UI: **A** for orbit, **D** for scenario, **F** for FPS, **S** for settings, and **Space** to pause.
4. Switch between scenarios such as breathing, fall detection, gesture control, or security patrol to see how the WiFi human pose estimation demo changes its output.
5. Open **Settings** if you want to tune the visual rendering, pick a style preset, or toggle room and grid elements.
6. If you have a live signal source, choose the WebSocket option, enter the WS URL, and connect it to the app.
7. Use **Reset Camera**, **Reset to Defaults**, or **Export Settings** when you need to return to a known configuration or share the current setup.

The fastest way to understand RuView is to leave Auto-Cycle on and compare scenarios back to back. That makes the WiFi human pose estimation demo easier to read than inspecting just one mode in isolation.

Who it is for

RuView is a good fit for people who want to explore WiFi sensing as a concept or demo it in a presentation:

- **AI and sensing researchers** who want a browser view of pose fusion and vital-sign monitoring.
- **Health and wellness teams** evaluating breathing, sleep, or elder-care scenarios.
- **Security and facilities teams** looking at intrusion, patrol, or occupancy concepts.

- **Education and demos** where a WiFi human pose estimation demo is easier to explain visually than in raw signal plots.
- **Hackers and builders** who want to test a live WebSocket source or inspect how a demo generator behaves.

It is also useful as a conversation piece for teams that need to explain what WiFi-based sensing can and cannot show.

What to know before you use it

RuView is a demo, so the output should be treated as illustrative rather than authoritative. Heart rate, respiration, fall state, sleep apnea, intrusion, and person counts are presented as part of the visualization, but the site does not document clinical validation, accuracy metrics, or device certification.

A few practical caveats matter:

- The app includes a **Demo Generator** and a **Live WebSocket** option, so the quality of the results will depend on the data source you connect.
- The interface shows a **WS URL** field, but the site does not explain the expected protocol details or payload schema.
- Scenario labels like **fall detected** or **presence absent** are demo states, not proof of real-world safety or medical status.
- The live readouts and confidence values should not be used as a substitute for an official medical device, security sensor, or emergency workflow.
- For real health, safety, or access-control decisions, use an approved system and the relevant official source instead of relying on this WiFi human pose estimation demo.

RuView is best understood as an interactive WiFi human pose estimation demo for learning, prototyping, and visualization. If you want a live sensing sandbox with pose, presence, and vital-sign storytelling in one place, this app gives you a clear starting point.

FAQ

Is RuView free to use?

How does WiFi sensing work in RuView?

What platform does RuView run on?

What scenarios can RuView detect?

Can I connect RuView to my own live data?

Is RuView free and can I use it with my own hardware?

What can RuView show?

What vital signs does RuView monitor?

Is RuView a medical or security-grade system?

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Category	AI
Platform	Web
Launched	Aug 2026
Updated	10 days ago
Verified	1 months ago

TAGS

wifi # wifi-sensing # human-pose # pose-estimation # privacy # vital-signs # fall-detection # presence-detection # web-demo # open source # sensing # 3d-visualization # real-time # websocket